STANDARDIZED PERMIT SERIES DETERMINATION A, B, C and SMALL QUANTITY C

| ECS Refining | | |
|-----------------------|-----------------|--|
| 705 Reed Street | | |
| Santa Clara, CA 95050 | CAD003963592 | |
| Facility Name/Address | EPA I.D. Number | |
| December 20, 2006 | _ | |
| Date | | |

Determine the total volume of hazardous waste treated, or that will be treated, per month and/or the total storage design capacity under the Standardized Permit authorization at this facility. Please check the box that indicates the highest volume of hazardous waste managed.

A. Total hazardous waste treatment volume and/or weight regulated under the standardized permit:

90,000 gallons/month liquid and/or 404.25 tons/month solid.

B. Total hazardous waste storage capacity, at any one time, regulated under the standardized permit:

_38,040 gallons liquid and/or _202.4_ tons/solid.

| SERIES | TOTAL MONTHLY TREATMENT VOLUME | TOTAL FACILITY STORAGE DESIGN CAPACITY | CHECK ONE |
|------------------------|---|--|--------------|
| Α | Greater than 50,000 gallons. Greater than 100,000 pounds. | Greater than 500,000 gallons. Greater than 500 tons. | х |
| В | Greater than 5,000 gallons and less than 50,000 gallons. Greater than 10,000 pounds and less than 100,000 pounds. | Greater than 50,000 gallons and less than 500,000 gallons. Greater than 100,000 pounds and less than 500 tons. | |
| С | Less than 5,000 gallons. Less than 10,000 pounds. | Less than 50,000 gallons. Less than 100,000 pounds. | |
| SMALL QUANTITY C | Less than 1,500 gallons. Less than 3,000 pounds. | Less than 15,000 gallons. Less than 30,000 pounds. | |

GALLONS - LIQUID HAZARDOUS WASTE POUNDS/TONS - SOLID HAZARDOUS WASTE

| Region | |
|----------------------|--|
| For DTSC Use Only | |

STANDARDIZED PERMIT NOTIFICATION FOR EXISTING OR PROPOSED HAZARDOUS WASTE FACILITIES

| | Please refer to the instruct | ions available | e from DTSC before completing this form. |
|--|--|-------------------------|--|
| Initial Notification for New Facility 🗌 | | Revised/Re | newal Notification for Existing Facility $\;igtigtigtigtigtigtigtigtarrow$ |
| I. FACILITY INFORMAT | ION | | |
| EPA ID NUMBER CADOO | 3963592 | ВОЕ | NUMBER (if available) HF HQ38-000489 S |
| NAME (Company or Facility (DBADoing Business As) | lity) <u>ECS Refining Texas,</u> | LLC dba ECS | S Refining |
| FACILITY ADDRESS | 705 Reed Street | | |
| CITY | Santa Clara | CA | ZIP <u>95050</u> - <u>3942</u> |
| COUNTY | Santa Clara | | |
| LOCATION (list major cro | oss streets, or nearby landmark | x) | |
| | Intersection of Reed and Gra | nt Streets | |
| (Latitude & Longitude) | _Latitude: 37° 21' 40" Longi | tude: 122° 56 | <u>5' 40"</u> |
| CONTACT PERSON | <u>Taggart</u> (Last Name) | Kenneth (First Name) | |
| TITLE | <u>Vice-President</u> | | |
| TELEPHONE NUMBER | (<u>408</u> _) <u>988</u> <u>4386</u> | | |
| II. MAILING ADDRESS, | IF DIFFERENT: | | |
| COMPANY NAME (DBA) | _same | | |
| STREET | | | |
| | | | |
| CITY | | STATE | ZIP |
| COUNTRY | (Complete only if not USA) | | |
| CONTACT PERSON | (Last Name) | (Firs | t Name) |
| TELEPHONE NUMBER | () | | |

STANDARDIZED PERMIT NOTIFICATION FOR EXISTING OR PROPOSED HAZARDOUS WASTE FACILITIES

| III. FACILITY OPERATOR | FACILITY OPERATOR INFORMATION | | | | | |
|------------------------|--|--|--|--|--|--|
| NAME | | | | | | |
| ADDRESS | _705 Reed Street | | | | | |
| CITY | <u>Santa Clara</u> STATE <u>CA</u> ZIP <u>95050 - 3942</u> | | | | | |
| TELEPHONE NUMBER(408_) | 9884386 | | | | | |
| IV. FACILTIY OWNER INF | ORMATION | | | | | |
| NAME | Taggart James L. (Last Name) (First Name) | | | | | |
| ADDRESS | _705 Reed Street | | | | | |
| CITY | <u>Santa Clara</u> STATE <u>CA</u> ZIP <u>95050 - 3942</u> | | | | | |
| COUNTRY | (Complete only if not USA) | | | | | |
| TELEPHONE NUMBER(408_) | <u>9884386</u> | | | | | |
| OWNERSHIP STATUS: | Federal State Public Private | | | | | |
| V. LAND OWNER INFOR | MATION (705 Reed Street Parcel) | | | | | |
| NAME | Forsyth (Last Name) Hubert (First Name) | | | | | |
| ADDRESS | _220 Montgomery Street, Suite 1094_ | | | | | |
| СІТҮ | San Francisco STATE CA ZIP 94104 - 3419 | | | | | |
| COUNTRY | (Complete only if not USA) | | | | | |
| TELEPHONE NUMBER(415_) | <u>392 - 2914 </u> | | | | | |

| VI. | DESCI | RIPTIO | N OF BUSINESS ACTIVITIES: | SIC C | ODES | <u>3341</u> | <u>5093</u> | _ | |
|---------------|---------|----------|--|-----------------|----------|-------------|-------------|-----------|------------------|
| | ECS R | efining | accepts for recycling a variety of met | al-bearir | ıg hazar | dous, un | iversal, a | and non- | <u>hazardous</u> |
| <u>solder</u> | wastes | s. The | hazardous wastes accepted are tin/le | ead sold | er dros | s and rel | ated iter | ns such | as tin/lead |
| | paste | and wip | es and photochemicals with silver an | d related | d items. | The univ | versal wa | astes acc | <u>cepted</u> |
| | for rec | ycling a | are cathode ray tubes (CRTs) and com | nputer m | onitors, | Universa | al Waste | Electron | ic Devices |
| | (UWE | Os), and | related electronic scrap. Materials ar | e accept | ted from | manufac | cturers a | nd post- | consumer. |
| | ECS R | efining | shreds, classifies and separates thes | <u>e materi</u> | als to m | aximize t | he recyc | ling valu | <u>ıe.</u> |
| | | | | | | | | | |
| | - | | | | | | | | |
| VII. | FACIL | ITY STA | ATUS | | | | | | |
| | A. | Other | Environmental Permits or Construction | on Appro | ovals He | ld or App | olied For | : | |
| | | | NPDES | | HW Fu | ıll Permit | i. | | |
| | | | Waste Discharge Requirements | | Hazard | dous Wa | ste (HW) | Permit B | By Rule |
| | | | Air Quality Permit | | HW Co | onditiona | I Author | ization | |
| | | | Land Use Permit | | HW C | onditiona | ıl Exemp | tion | |
| | | | Local Industrial Sanitation District | | HW Tr | ansporte | er Regist | ration | |
| | | | TSCA PCB Permit | | | | | | |
| | Other_ | | | | | | | | |
| | В. | Is faci | lity on Indian Lands? Yes | | No | | | | |

VIII.

STANDARDIZED PERMIT NOTIFICATION FOR

HAZARDOUS WASTE INFORMATION FOR ENTIRE SITE

EXISTING OR PROPOSED HAZARDOUS WASTE FACILITIES

| A. | <u>4</u> T | otal numb | number of hazardous waste storage units | |
|----|------------|-----------|--|--|
| | 0 | Nui | mber of storage units under full HW facility permit | |
| | 4 | Nui | mber of storage units under standardized permit | |
| В. | <u>8</u> T | otal numb | per of hazardous waste treatment units | |
| | 0 | Nui | mber of treatment units under full HW facility permit | |
| | 8 | Nui | mber of treatment units under standardized permit | |
| | 0 | Nui | mber of treatment units under HW permit by rule | |
| | 0 | Nui | mber of treatment units under HW conditional authorization | |
| | 0 | Nui | mber of treatment units under HW conditional exemption | |

C. Briefly describe <u>all</u> hazardous waste treatment and/or storage activities to be conducted at the facility. Include treatment under a full permit, Permit by Rule, treatment under Conditional Authorization, treatment under Conditional Exemption, and storage and/or treatment under the Standardized Permit. Annotate the description of each of the storage/treatment activities as Permit By Rule (PBR), Conditional Authorization (CA), Conditional Exemption (CE), or Standardized Permit (SP) as appropriate. Note that detailed unit-specific information forms for each unit that is or will be authorized under the Standardized Permit are required attachments to this notification. (Modify the form if more spaces are needed)

All hazardous waste related activities are conducted under the Standardized Permit program. The storage areas for hazardous waste consist of four areas with tank and/or drum storage. Area I is permitted to store solid hazardous waste. Area lla is permitted to store drums of liquid hazardous waste and contains tank storage for liquid hazardous waste. Area IIb is permitted to store drums of liquid hazardous waste and contains tank storage of liquid hazardous wastes. Area IV is permitted to store drums of solid hazardous wastes and drums of liquid hazardous waste, provided they are on containment pallets. Area III is not for hazardous waste storage but is used to store scrap, non-hazardous wastes, or universal wastes. Treatment units include two units to treat photochemicals with silver and other metal-bearing wastewaters (Units #1 and #3), three crucible furnaces for reclamation of various metal-bearing wastes (Units #7, #20, and #21) and one enclosed furnace for reclamation of tin/lead from solder paste and for processing of non-hazardous metal samples (Unit #15). The E-Waste/Printed Circuit Board (PCBd) Shredder (Unit #27) is included in this application to ensure that the shredder may be used for non-RCRA scrap materials that are not classified as universal wastes. In addition, this permit provides for the installation of a CRT Glass Washing Unit (Unit #28) that will remove the coatings from shredded CRT glass in order to maximize its recycling value. Equipment used to process non-hazardous or universal waste that is not included in this permit includes shredders for electronic scrap and CRTs, ball mills for processing of nonhazardous scrap, a screener for processing of non-hazardous scrap, and a reverberatory furnace for processing of non-hazardous silver-bearing materials.

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IX.

X.

STANDARDIZED PERMIT NOTIFICATION FOR EXISTING OR PROPOSED HAZARDOUS WASTE FACILITIES

| supervision evaluate the system or th knowledge a | those directly responsible for gathering the information, the information is, to the best of and belief, true, accurate and complete. I am aware that there are significant penalties false information, including the possibility of fines and imprisonment for known violation to Type) Title | | | | | |
|--|---|--|--|--|--|--|
| supervision evaluate the system or th knowledge a | and belief, true, accurate and complete. I am aware that there are significant penalties | | | | | |
| | der penalty of law that this document and all attachments were prepared under my direction in accordance with a system designed to assure that qualified personnel properly gather are information submitted. Based on my inquiry of the person or persons who will manage | | | | | |
| requirement required to p | nat the unit or units described in these documents will meet the eligibility and operated to state statutes and regulations for the standardized permit tier. I understand that I provide financial assurance for this facility, and I am required to conduct a corrective acts part of the standardized permit application to be submitted to the Department of Tost Control." | | | | | |
| OWNER CEF | ERTIFICATION | | | | | |
| D . | A unit description information sheet for each of the hazardous waste storage and/or treatment units that will be under the Standardized Permit. | | | | | |
| C. | A scaled diagram to show the locations of hazardous waste management units to permitted under the standardized permit. | | | | | |
| В. | B. A scaled diagram to show the facility site/plot map indicating the buildings, parking lo and landscape areas. | | | | | |
| | A scaled map to show the facility location including major freeways and cross street | | | | | |
| A. | | | | | | |

XI. OPERATOR CERTIFICATION

"I certify that the unit or units described in these documents will meet the eligibility and operating requirements of state statutes and regulations for the standardized permit tier. I understand that I am required to provide financial assurance for this facility, and I am required to conduct a corrective action program as part of the standardized permit application to be submitted to the Department of Toxic Substances Control."

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who will manage the system or those directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for known violations."

| Name (Print or Type) | | Title | |
|---------------------------------|-----------------------------------|--------------------------------|------------------|
| Signature | | Date Signed | |
| LAND OWNER CERTIFICATION | ON | | |
| I [We] certify under penalty of | of law that I [we] am [are] famil | iar with the operations cond | ducted by |
| | [Names of Operators] | of | [Nar |
| of Facility] at | | | [addre |
| on the property owned by | | [ow | ner's name o |
| his/her designee], that I [we] | have reviewed this permit app | olication, and to the best on | my [our] |
| knowledge, information, and | belief, find it to be true and ac | curate. I [We] understand t | this application |
| is being submitted for the pu | rpose of obtaining a Standard | ized Permit to operate a haz | zardous waste |
| storage and treatment facility | y. | | |
| I [We] understand fully that I | [we], as the land owner, locate | ed thereon, am [are] jointly a | and severally |
| responsible for compliance v | with applicable provisions of t | he California Health and Saf | fety Code, its |
| implementing regulations an | d any permit issued pursuant | to the applications of these | regulations. |
| | | | |
| Name (print or type) | Title | Name (print or type) | Title |
| | | | |
| Signature | Date | Signature | Da |

(NOTE: copy this form, and complete a separate form for each hazardous waste management unit that is or will be regulated under the Standardized Permit)

UNIT NAME #10 Storage Area I

I. STORAGE AREA

| DIMENSIONS OF CONTAINER STORAGE AREA OR TANK FARM (length and width) | PROCESS CODE | # OF CONTAINERS OR TANKS | TOTAL STORAGE VOLUME | UNIT OF MEASURE |
|---|-----------------|--------------------------|----------------------------|--------------------|
| 10'L x 5'W | S1 | 20 55-gallon drums | 8.8 | tons |

II. WASTE STORED

| WASTE | CODE(S) | | | MAX. CONCENTRATION | ESTIMATED QUANTITY | UNIT OF MEASURE |
|-----------------------|---------|-----------------------|---------|---|-------------------------|--------------------|
| RCRA | CA | DESCRIPTION | CODE(3) | CONCENTRATION | QUANTITI | WEASONE |
| Exempt, see WAP | 181 | Tin/lead solder dross | S1 | 100% Lead Typically 63% Tin/ 37% Lead | 8.8 | tons |
| Exempt, see WAP | 181 | Tin/lead oxides | S1 | 100% Lead Typically 63% Tin/ 37% Lead | Included in above total | |
| | | | | | | |
| | | | | | | |

(Modify the form if more than 5 waste streams are stored in this unit)

| Ш | DESCRIPTION AND I | LOCATION OF STORAGE LINIT |
|---|-------------------|---------------------------|
| | | |

| This storage unit is located in the Solder Processing Room, at the Northeast corner of the 705 Reed Street |
|--|
| building. It is designed to be used to store a small quantity of solder dross that is to be processed. |
| |
| |

(NOTE: copy this form, and complete a separate form for each hazardous waste management unit that is or will be regulated under the Standardized Permit)

UNIT NAME_#11a Storage Area IIa

III. STORAGE AREA

| DIMENSIONS OF CONTAINER STORAGE AREA OR TANK FARM (length and width) | PROCESS CODE | # OF CONTAINERS OR TANKS | TOTAL STORAGE VOLUME | UNIT OF MEASURE |
|---|-----------------|---|----------------------------|--------------------|
| 47' 8"L x 27'W x 6"H | S1, T2 | 20 55-gallon drums <u>Tanks</u> Tank A – 3,000 gallons Tank B – 3,000 gallons | 7,100 | gallons |

IV. WASTE STORED

| WASTE CODE(S) | | WASTE DESCRIPTION | PROCESS | MAX. CONCENTRATION | ESTIMATED QUANTITY | UNIT OF MEASURE |
|---------------------|------------|---|----------------|----------------------------|---------------------|--------------------|
| RCRA | CA | DESCRIPTION | CODE(S) | CONCENTRATION | QUANTITY | WEASURE |
| D011, see WAP | 541 | Photochemicals with silver | S1 S2 T2 | 5% Silver | 7,100 | gallons |
| Exempt | 171 | Sludge with silver | S1 | See WAP | Included with above | |
| D008* | 141 | Off-specification, aged, or surplus inorganics * See WAP for additional waste codes | S1 | See WAP | Included with above | |
| D008* | | Polymeric resin waste * see WAP for additional waste codes | S1 | See WAP | See above | |
| Exempt | 171 | Filters with silver | S1 | See WAP | See above | |
| See WAP | See WAP | Metal-bearing wastewaters | S1, S2 T2 | See Waste Analysis Plan | | |

(Modify the form if more than 5 waste streams are stored in this unit)

III. DESCRIPTION AND LOCATION OF STORAGE UNIT

This storage unit is located in the Silver Processing Room (Area IIa). The room holds two treatment tanks associated with processing Unit #1 and Unit #3, The room also serves as a steel wool column decanting station (unregulated) and contains drying ovens for drying steel wool (unregulated activity).

(NOTE: copy this form, and complete a separate form for each hazardous waste management unit that is or will be regulated under the Standardized Permit)

UNIT NAME #11b Storage Area IIb

V. STORAGE AREA

| DIMENSIONS OF CONTAINER STORAGE AREA OR TANK FARM (length and width) | PROCESS CODE | # OF CONTAINERS OR TANKS | TOTAL STORAGE VOLUME | UNIT OF MEASURE |
|---|-----------------|--|----------------------------|--------------------|
| 85'L x 30'W x 9"H | S1, T2 | 160 55-gallon drums Tanks Tank 1 – 2,500 gallons Tank 2 – 2,500 gallons Tank 3 – 2,500 gallons Tank C – 3.200 gallons | 19,500 | gallons |

VI. WASTE STORED

| WASTE CODE(S) | | WASTE | PROCESS | MAX. | ESTIMATED | UNIT OF |
|---------------------|------------|---|----------------|----------------------------|---------------------|---------|
| RCRA | CA | - DESCRIPTION | CODE(S) | CONCENTRATION | QUANTITY | MEASURE |
| D011, see WAP | 541 | Photochemicals with silver | S1 S2 T2 | 5% Silver | 19,500 | gallons |
| Exempt | 171 | Sludge with silver | S1 | See WAP | Included with above | |
| D008* | 141 | Off-specification, aged, or surplus inorganics * See WAP for additional waste codes | S1 | See WAP | Included with above | |
| D008* | | Other metal-bearing sludges * See WAP for additional waste codes | S1 | See WAP | Included with above | |
| D008* | | Polymeric resin waste * see WAP for additional waste codes | S1 | See WAP | See above | |
| Exempt | 171 | Filters with silver | S1 | See WAP | See above | |
| See WAP | See WAP | Metal-bearing wastewaters | S1, S2 T2 | See Waste Analysis Plan | | |

(Modify the form if more than 5 waste streams are stored in this unit)

III. DESCRIPTION AND LOCATION OF STORAGE UNIT

This storage unit is located in the Evaporator Area (Area IIb). The area holds four treatment tanks associated with processing Unit #1 and Unit #3, The area also holds the Drum Washing Station

(Unit #23) and the Vacuum Evaporation Unit (Unit #3)

(NOTE: copy this form, and complete a separate form for each hazardous waste management unit that is or will be regulated under the Standardized Permit)

UNIT NAME #13 Storage Area IV

VII. STORAGE AREA

| DIMENSIONS OF CONTAINER STORAGE AREA OR TANK FARM (length and width) | PROCESS CODE | # OF CONTAINERS OR TANKS | TOTAL STORAGE VOLUME | UNIT OF MEASURE |
|---|-----------------|---|----------------------------|--------------------|
| 62'L x 58'W | S1 | Up to 208 55-gallon drums liquid | 11,440 | Gallons |
| | | 440 55-gallon drums (or balance) solids | 387,200 | Pounds |

[continued on next page]

VIII. WASTE STORED

| WASTE | CODE(S) | WASTE | PROCESS | MAX. | ESTIMATED | UNIT OF |
|-----------------------|------------|---|---------|----------------------------|---|---------|
| RCRA | CA | - DESCRIPTION | CODE(S) | CONCENTRATION | QUANTITY | MEASURE |
| Exempt, See WAP | 181 | Tin/lead solder dross | S1 | 100% Lead | Total drums in area not to exceed 648 55-gallon drums or equivalent | |
| Exempt | 221 | Waste oil | S1 | 100% Oil | 220 | gallons |
| Exempt, See WAP | 181 | Tin/lead oxides | S1 | 100% Lead | See above | |
| D008 | 181 | Tin/lead solder paste and wipes | S1 | 15% Lead | See above | |
| D008 | 181 | Ash | S1 | 100 % Lead | See above | |
| D011 See WAP | 541 | Photochemicals with silver | S1 | 5% Silver | See above | |
| Exempt | 171 | Sludge with silver | S1 | 50% Silver | See above | |
| D008* | 141 | Off-specification, aged, or surplus inorganics * see WAP for additional waste codes | S1 | See WAP | See above | |
| D008* | | Laboratory chemical waste * see WAP for additional waste codes | S1 | See WAP | See above | |
| D008* | | Metal dust/machining waste * see WAP for additional waste codes | S1 | See WAP | See above | |
| D008 | | Other metal-bearing sludges * see WAP for additional waste codes | S1 | See WAP | See above | |
| Exempt | 591 | Baghouse waste | S1 | See WAP | See above | |
| D008* | | Polymeric resin waste * see WAP for additional waste codes | S1 | See WAP | See above | |
| Exempt | 171 | Filters with silver | S1 | See WAP | See above | |
| Exempt | 171 | Filters with lead | S1 | See WAP | See above | |
| D011 | 181 | Wipes with silver | S1 | See WAP | See above | |
| D011 | 181 | Miscellaneous residue with silver | S1 | See WAP | See above | |
| D008 | 181 | Miscellaneous residue with lead | S1 | See WAP | See above | |
| See WAP | See WAP | Metal-bearing wastewaters (Modify the form if more than | S1 | See Waste Analysis Plan | | |

(Modify the form if more than 5 waste streams are stored in this unit)

III. DESCRIPTION AND LOCATION OF STORAGE UNIT

This storage unit is located opposite the Receiving Area. The area holds three rows of liquid photochemicals with silver, double-stacked, on containment pallets. The remaining rows are used for storage of solid hazardous and/or non-hazardous wastes. The first three rows may also be used for storage of solid hazardous or non-hazardous waste if it is not filled with liquids. The quantity of each waste type stored is variable and unpredictable; however, the total number of drums to be stored will not exceed 648.

UNIT NAME Photochemical Processing Unit (Unit #1)_

I. TREATMENT PROCESS

| PROCESS DESCRIPTION | PROCES S CODE | # OF EQUIPMENT | PROCESS DESIGN CAPACITY | UNIT OF MEASURE |
|---|------------------|-------------------|-------------------------------|--------------------|
| Recovery of silver from photochemicals with silver or metals from other metal-bearing wastewaters | T2 | Unit #1 | 1,500 | Gallons per day |

II. WASTE TREATED

| WASTE | CODE(S) | (-) | | MAX. CONCENTRATION | ESTIMATED QUANTITY | UNIT OF MEASURE |
|---------------------|------------|----------------------------|---------|-----------------------|------------------------------|--------------------|
| RCRA | CA | DEGGINI HON | CODE(O) | CONCENTRATION | QUANTITI | WILAGORE |
| D011, see WAP | 541 | Photochemicals with silver | T2 | 5% silver | 1,500 | Gallons per day |
| See WAP | See WAP | Metal-bearing wastewaters | T2 | See WAP | Included with above capacity | |
| | | | | | | |
| | | | | | | |

(Modify the form if more than 5 waste streams are treated by this process)

III. NARRATIVE DESCRIPTION OF TREATMENT UNIT

Unit #1 (Photochemical Processing Unit) removes the silver from liquid photochemical waste. There are two types of treatment that may occur using this unit and equipment—either metallic replacement of the silver for iron using metallic replacement cartridges, or using a proprietary chemical (S-ROM) in conjunction with carbon filtration to remove silver from the waste stream. The S-ROM precipitation also has the capability to remove small amounts of other metal contaminants, such as chromium or zinc. As such, other metal-bearing wastewaters may also be treated in this unit.

UNIT NAME Vacuum Evaporation Unit (Unit #3)_

I. TREATMENT PROCESS

| PROCESS DESCRIPTION | PROCES S CODE | # OF EQUIPMENT | PROCESS DESIGN CAPACITY | UNIT OF MEASURE |
|---|------------------|-------------------|-------------------------------|--------------------|
| Recovery of silver from photochemicals with silver or metals from other metal-bearing wastewaters | T2 | Unit #3 | 1,500 | Gallons per day |

II. WASTE TREATED

| WASTE CODE(S) | | WASTE DESCRIPTION | PROCESS CODE(S) | MAX. CONCENTRATION | ESTIMATED QUANTITY | UNIT OF MEASURE |
|---------------------|------------|----------------------------|--------------------|-----------------------|------------------------------|--------------------|
| RCRA | CA | DESCRIPTION | CODE(3) | CONCENTRATION | QUANTITI | WILAGUIL |
| D011, See WAP | 541 | Photochemicals with silver | T2 | 5% silver | 1,500 | Gallons per day |
| See WAP | See WAP | Metal-bearing wastewaters | T2 | See WAP | Included with above capacity | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

(Modify the form if more than 5 waste streams are treated by this process)

III. NARRATIVE DESCRIPTION OF TREATMENT UNIT

Unit #3 (Vacuum Evaporation Unit) removes the water from liquid photochemical waste or other metal-bearing wastewaters. Under vacuum, the double-effect evaporator removes water from the wastewaters and recondenses it into a holding tank for testing. The treated water is tested for silver level and either discharged under permit to the POTW or is shipped off-site as a non-hazardous waste.

The sludge (or concentrate) from the evaporator may be smelted on-site for metal recovery or shipped off-site for further recovery.

UNIT NAME Hot Pot Furnace (Unit #7)_

I. TREATMENT PROCESS

| PROCESS DESCRIPTION | PROCES S CODE | # OF EQUIPMENT | PROCESS DESIGN CAPACITY | UNIT OF MEASURE |
|---|------------------|-------------------|-------------------------------|--------------------|
| Melting of silver flake or other metal-bearing wastes | T2 | Unit #7 | 50 | Pounds per hour |

II. WASTE TREATED

| WASTE | CODE(S) | WASTE | PROCESS | MAX. | ESTIMATED | UNIT OF |
|------------|------------|--|---------|---------------|------------------------------|--------------------|
| RCRA | CA | - DESCRIPTION | CODE(S) | CONCENTRATION | QUANTITY | MEASURE |
| Exempt | Exempt | Silver flake | T2 | 99% silver | 50 | pounds per hour |
| See WAP | See WAP | Other metal-bearing sludges | T2 | See WAP | Included with above capacity | |
| See WAP | See WAP | Metal dust/machining waste | T2 | See WAP | Included with above capacity | |
| See WAP | See WAP | Off-specification aged or Surplus inorganics | T2 | See WAP | Included with above capacity | |
| See WAP | See WAP | Laboratory chemical waste | T2 | See WAP | Included with above capacity | |

(Modify the form if more than 5 waste streams are treated by this process)

III. NARRATIVE DESCRIPTION OF TREATMENT UNIT

<u>Unit #7 (Hot Pot) is a gas-fired pot crucible furnace used to melt silver flake into silver bars. It may also</u>

be used for recovery of small lots of other precious metals such as platinum and palladium. The furnace is generally used for non-hazardous and unregulated wastes but may also be used for other metal-bearing wastes as listed above.

UNIT NAME Tray Furnace (Unit #15)_

I. TREATMENT PROCESS

| PROCESS DESCRIPTION | PROCES S CODE | # OF EQUIPMENT | PROCESS DESIGN CAPACITY | UNIT OF MEASURE |
|---|------------------|-------------------|-------------------------------|--------------------|
| Recovery of tin/lead metal from tin/lead solder paste and wipes | T2 | Unit #15 | 25 | Pounds per hour |

II. WASTE TREATED

| WASTE CODE(S) | | WASTE | PROCESS | MAX. | ESTIMATED | UNIT OF |
|---------------|------------|---|---------|---------------|------------------------------|--------------------|
| RCRA | CA | - DESCRIPTION | CODE(S) | CONCENTRATION | QUANTITY | MEASURE |
| D008 | 181 | Tin/lead solder paste and wipes | T2 | 15% lead | 25 | Pounds per hour |
| See WAP | See WAP | Other metal-bearing sludges | T2 | See WAP | Included with above capacity | |
| See WAP | See WAP | Metal dust/machining waste | T2 | See WAP | Included with above capacity | |
| See WAP | See WAP | Off-specification aged or Surplus inorganics | T2 | See WAP | Included with above capacity | |
| See WAP | See WAP | Laboratory chemical waste | T2 | See WAP | Included with above capacity | |
| See WAP | See WAP | Filters with silver | T2 | See WAP | Included with above capacity | |
| See WAP | See WAP | Filters with Lead | T2 | See WAP | Included with above capacity | |
| See WAP | See WAP | Miscellaneous residue with silver | T2 | See WAP | Included with above capacity | |
| See WAP | See WAP | Miscellaneous residue with lead | T2 | See WAP | Included with above capacity | |
| See WAP | See WAP | Wipes with silver | T2 | See WAP | Included with above capacity | |

(Modify the form if more than 5 waste streams are treated by this process)

III. NARRATIVE DESCRIPTION OF TREATMENT UNIT

Unit #15 (Tray Furnace) is a gas-fired enclosed furnace that is used to treat tin/lead solder paste and wipes and produce bars of tin/lead solder. It is also used on non-hazardous materials, such as to prepare samples of shredded printed circuit boards for melting in the crucible furnaces.

UNIT NAME 600 Crucible Furnace (Unit #20)

I. TREATMENT PROCESS

| PROCESS DESCRIPTION | PROCES S CODE | # OF EQUIPMENT | PROCESS DESIGN CAPACITY | UNIT OF MEASURE |
|---------------------|------------------|-------------------|-------------------------------|--------------------|
| Recovery of metal | T2 | Unit #20 | 360 | Pounds per hour |

II. WASTE TREATED

| WASTE | CODE(S) | WASTE DESCRIPTION | PROCESS MAX. CODE(S) CONCENTRATIO | | ESTIMATED QUANTITY | UNIT OF MEASURE |
|------------|------------|--|-----------------------------------|---------------|------------------------------|--------------------|
| RCRA | CA | DESCRIPTION | 0002(0) | CONCENTRATION | QOANTITI | MEAGGRE |
| Exempt | 181 | Tin/lead solder dross | T2 | 100% lead | 360 | Pounds per hour |
| See WAP | See WAP | Other metal-bearing sludges | T2 | See WAP | Included with above capacity | |
| See WAP | See WAP | Metal dust/machining waste | T2 | See WAP | Included with above capacity | |
| See WAP | See WAP | Off-specification aged or Surplus inorganics | T2 | See WAP | Included with above capacity | |
| See WAP | See WAP | Laboratory chemical waste | T2 | See WAP | Included with above capacity | |
| Exempt | Exempt | Silver flake | T2 | See WAP | Included with above capacity | |

(Modify the form if more than 5 waste streams are treated by this process)

III. NARRATIVE DESCRIPTION OF TREATMENT UNIT

<u>Unit #20 (600 Crucible Furnace) is a gas-fired tilt crucible furnaces used to melt samples of printed</u>

<u>circuit boards with copper for assay purposes (an unregulated activity). It may also be used to recover metal from hazardous wastes.</u>

UNIT NAME 430 Crucible Furnace (Unit #21)

I. TREATMENT PROCESS

| PROCESS DESCRIPTION | PROCES S CODE | # OF EQUIPMENT | PROCESS DESIGN CAPACITY | UNIT OF MEASURE |
|---------------------|------------------|-------------------|-------------------------------|--------------------|
| Recovery of metal | T2 | Unit #21 | 260 | Pounds per hour |

II. WASTE TREATED

| WASTE | CODE(S) | WASTE DESCRIPTION | PROCESS MAX. CODE(S) CONCENTRATION | | ESTIMATED QUANTITY | UNIT OF MEASURE |
|------------|------------|--|------------------------------------|---------------|------------------------------|--------------------|
| RCRA | CA | DESCRIPTION | 0002(0) | CONCENTRATION | QOANTITI | MEAGGRE |
| Exempt | 181 | Tin/lead solder dross | T2 | 100% lead | 260 | Pounds per hour |
| See WAP | See WAP | Other metal-bearing sludges | T2 | See WAP | Included with above capacity | |
| See WAP | See WAP | Metal dust/machining waste | T2 | See WAP | Included with above capacity | |
| See WAP | See WAP | Off-specification aged or Surplus inorganics | T2 | See WAP | Included with above capacity | |
| See WAP | See WAP | Laboratory chemical waste | T2 | See WAP | Included with above capacity | |
| Exempt | Exempt | Silver flake | T2 | See WAP | Included with above capacity | |

(Modify the form if more than 5 waste streams are treated by this process)

III. NARRATIVE DESCRIPTION OF TREATMENT UNIT

<u>Unit #21 (430 Crucible Furnace) is a gas-fired tilt crucible furnaces used to melt samples of printed</u>

<u>circuit boards with copper for assay purposes (an unregulated activity). It may also be used to recover metal from hazardous wastes.</u>

UNIT NAME E-Waste/Printed Circuit Board Shredder (Unit #27)

I. TREATMENT PROCESS

| PROCESS DESCRIPTION | PROCES S CODE | # OF EQUIPMENT | PROCESS DESIGN CAPACITY | UNIT OF MEASURE |
|--|------------------|-------------------|-------------------------------|--------------------|
| Shredding of metal-bearing hazardous, nonhazardous, or universal waste | T2 | Unit #27 | 30,000 | Pounds per hour |

II. WASTE TREATED

| WASTE CODE(S) | | WASTE DESCRIPTION | PROCESS CODE(S) | MAX. CONCENTRATION | ESTIMATED QUANTITY | UNIT OF MEASURE |
|---------------|------|------------------------------------|--------------------|-----------------------|------------------------------|--------------------|
| RCRA | CA | DESCRIPTION | CODE(3) | CONCENTRATION | QUANTITI | WILASUKL |
| D011 | 181 | Miscellaneous residue with silver | T2 | 100% silver | 40,000 | Pounds per month |
| D008 | 181 | Miscellaneous residue with lead | T2 | 100% lead | Included with above capacity | |
| None | None | Slag | T2 | See WAP | Included with above capacity | |
| None | None | Electronic scrap | T2 | See WAP | Included with above capacity | |
| None | None | Computer monitors/CRTs/Televisions | T2 | See WAP | Included with above capacity | |

(Modify the form if more than 5 waste streams are treated by this process)

III. NARRATIVE DESCRIPTION OF TREATMENT UNIT

Unit #27 (E-Waste/Printed Circuit Board Shredder) consists of two shredders in-line that are designed to reduce to variable particle size (typically one to two inches) electronic scrap, cathode ray tubes, computer monitors, or televisions. This unit is included in this standardized permit as a permitted unit because certain types of electronic scrap or manufacturing scrap may be classified by the generator as hazardous waste, and not eligible for handling as a universal waste. The permit covers the shredding units themselves, and does not include the separation equipment that is in line after the shredder. Use of Unit #27 allows these materials to be prepared for shipment to primary smelters or other refiners for ultimate material recovery.

Note: The Process Design Capacity of this unit is 30,000 lbs/hr but this unit is not operated at capacity for processing of hazardous wastes. The unit is mostly used to process universal waste electronic devices. The permitted capacity for hazardous waste treatment is set at 40,000 lbs/month.

UNIT NAME CRT Glass Washing Unit (Unit #28)

I. TREATMENT PROCESS

| PROCESS DESCRIPTION | PROCES S CODE | # OF EQUIPMENT | PROCESS DESIGN CAPACITY | UNIT OF MEASURE |
|---|------------------|-------------------|-------------------------------|--------------------|
| Washing of CRT glass to remove coatings | T2 | Unit #28 | 20,000 | Pounds per hour |

II. WASTE TREATED

| WASTE CODE(S) | | WASTE DESCRIPTION | PROCESS | MAX. CONCENTRATION | ESTIMATED QUANTITY | UNIT OF MEASURE |
|---------------|------|----------------------|---------|-----------------------|-----------------------|--------------------|
| RCRA | CA | DESCRIPTION | CODE(S) | CONCENTRATION | QUANTITY | WEASURE |
| None | None | CRT glass | T2 | 25% lead | 20,000 | Pounds per hour |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

(Modify the form if more than 5 waste streams are treated by this process)

III. NARRATIVE DESCRIPTION OF TREATMENT UNIT

<u>Unit #28 (CRT Glass Washing Unit) is designed to wash the phosphor coatings from prepared Cathode Ray Tube (CRT) Glass. Removal of the coatings increases the recycling value of the glass and allows greater options for domestic and overseas recycling.</u>

SUMMARY OF EQUIPMENT INFORMATION (EXCLUDING STORAGE DRUMS/CONTAINERS)

| FACILITY EQUIPMENT NAME | PROCESS CODE | CAPACITY | DIMENSION | CONSTRUCTION MATERIAL | YEAR BUILT |
|--|-----------------|------------------|------------------|--|--|
| Photochemical Processing Unit (Unit #1) | T2 | 1,500 gpd | See Section V | HDPE | 1994 Tanks replaced at various times |
| Vacuum Evaporation Unit (Unit #3) | T2 | 1,500 gpd | See Section V | Stainless Steel and HDPE | 1994 |
| Hot Pot Furnace (Unit #7) | T2 | 50 lbs/hr | See Section V | Steel, refractory and removable silicon/carbide crucibles | 1991 |
| Tray Furnace (Unit #15) | T2 | 25 lbs/hr | See Section V | Steel, refractory brick | 1991 |
| 600 Crucible Furnace (Unit #20) | T2 | 360 lbs/hr | See Section V | Steel, refractory, and Removable silicon/carbide crucibles | 1985 |
| 430 Crucible Furnace (Unit #21) | T2 | 260 lbs/hr | See Section V | Steel, refractory, and Removable silicon/carbide crucibles | 1980 |
| E-Waste/Printed Circuit Board Shredder | T2 | 30,000 lbs/hr | See Section V | Steel | 2007 |
| CRT Glass Washing Unit | T2 | 20,000 lbs/hr | See Section V | HDPE and polymer materials | 2008 (estimate) |

(Modify the form and insert additional rows if needed)

CODES TO BE USED IN THESE TABLES:

FACILTY EQUIPMENT NAME: The name or identification assigned by the Facility, e.g. Tank A, Furnace #1, etc.

PROCESS CODES: S1 – Storage in containers

S2 - Storage in tanks T1 - Treatment in containers T2 - Treatment in tanks

CAPACITY: maximum equipment storage capacity or equipment monthly treatment rate

DIMENSIONS:

Container or drums for treatment - diameter and height in inches (in), feet (ft),

Tanks, reactors, vats, furnaces, filter press, etc. - diameter, length, width, and height in inches (in), feet (ft),

Other Types of Units - appropriate units of measure; please clearly define the units.

CONSTRUCTION MATERIAL: carbon steel, stainless steel, fiberglass, etc.

YEAR BUILT: Enter the year when the equipment was built, if known; otherwise enter "unknown".

ECS REFINING

UNIT SUMMARY SHEET

| Unit | Description | Unit | Description |
|------|-------------------|------|--|
| 1 | Photochemical | 14 | Closed Unit |
| | Processing | | |
| | Unit | | |
| 2 | Closed Unit | 15 | Tray Furnace |
| 3 | Vacuum Evaporator | 16 | Shredder A (NR) |
| 4 | Closed Unit | 17 | Closed Unit |
| 5 | Drying Ovens (NR) | 20 | 600 Crucible Furnace |
| 6 | Ball Mills (NR) | 21 | 430 Crucible Furnace |
| 7. | Hot Pot Furnace | 22 | Reverberatory Furnace (NR) |
| 8 | Closed Unit | 23 | Drum Wash (NR) |
| 9 | Closed Unit | 24 | Closed Unit |
| 10 | Storage Area I | 25 | Baghouses (regulated by BAAQMD) |
| 11a | Storage Area IIa | 26 | CRT/Monitor Shredder (NR) |
| 11b | Storage Area IIb | 27 | E-Waste/Printed Circuit |
| | | | Board Shredder (Shredder unit |
| | | | permitted, not eddy current separation |
| | | | device) |
| 12 | Storage Area III | 28 | CRT Glass Washing Unit |
| | (Not a | | |
| | hazardous waste | | |
| | storage unit) | | |
| 13 | Storage Area IV | NR | Not Regulated |

ENVIRONMENTAL INFORMATION FORM

The following information is requested pursuant California Code of Regulations, Title 14, Section 15063(e). This information will be used by the Department of Toxic Substances Control (DTSC) in conducting an Initial Study to determine if the proposed project may have a significant effect on the environment. The findings of the Initial Study will assist DTSC in determining whether an Environmental Impact Report, Negative Declaration or other environmental document should be prepared pursuant the California Environmental Quality Act (CEQA).¹

Instructions:

Provide the information requested below and within each of the environmental resource categories (use additional sheets, if necessary). If the item is not applicable to the project, include a brief explanation as to why it would not be applicable. Include the name, title and page numbers for all reference documents used in support of the information provided. If an individual is used as a reference, please include name, title, employer, and date of the interview. Attach copies of all references.

PROJECT TITLE:

ECS Refining Standardized Permit Renewal

PROJECT ADDRESS:

CITY:

COUNTY:

705 Reed Street

Santa Clara

Santa Clara

PROJECT SPONSOR:

CONTACT:

PHONE:

ECS Refining

Beverly Pester

(408) 988-4386

PROJECT DESCRIPTION:

This project is a renewal of an existing standardized permit that authorizes ECS Refining to treat, store and recycle several metal-bearing waste streams that do not require a RCRA permit for recycling. There area two broad categories of hazardous wastes included in the permit: tin/lead solder dross and related wastes, and photochemicals with silver and related wastes. The scope of the permit is not to be changed upon the renewal, and the areas permitted for hazardous waste storage will decrease. The site is located in an area zoned for Heavy Industry and has been located at the same site since 1980. The use of the site for this operation is in accordance with City of Santa Clara guidelines for hazardous operations location.

1. Aesthetics

Description of Baseline Environmental Conditions:

a. Describe the site's proximity to a scenic vista.

The site is located in an area zoned "Heavy Industry" and is not near any scenic vistas.

b. Describe the site's proximity to a state scenic highway that contains scenic resources, including, but not limited to, trees, rock outcroppings and historic buildings.

The site is not located near any state scenic highways.

c. Describe the existing visual character or quality of the site and its surroundings.

The visual character of the site and the surrounding area is one of warehouses and industrial buildings. Most of the buildings in the area were constructed before 1970. The ECS Refining site itself is unique, in that it has a landscaped area in the front of the building with trees and flowering shrubs. Other buildings in the area have only paved parking lots.

d. Describe existing sources of light at and in proximity to the site.

The three warehouses that comprise the ECS Refining site all have overhead lighting installed and skylights. In addition, roll-up warehouse doors are kept open during business hours and allow natural light to enter the warehouse. Exterior yard areas are lighted during nighttime as a security measure, with lights that are approximately 2,400 watts.

¹ Pub. Resources Code, div. 13, § 21000 et seq

References Used: None applicable.

2. Agricultural Resources

Description of Baseline Environmental Conditions:

a. Indicate if the site is located on or in proximity to Prime Farmland, Unique Farmland, or Farmland of Statewide Importance as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency.

The site is located in an area zoned by the City of Santa Clara "MH—Heavy Industry" and has been zoned in this manner since before ECS Refining occupied the site in 1980. The City of Santa Clara Zoning Map (attached) indicates that there are no areas zoned for farmland in the immediate vicinity.

b. Indicate if the site is located on or in proximity to land zoned for agriculture use, or under Williamson Act contract.

As indicated by the City of Santa Clara Zoning Map, the site is not located on or in proximity to land zoned for agriculture use.

References Used:

a. and b.) City of Santa Clara Zoning Map. Available online at http://www.ci.santa-clara.ca.us/pdf/plans ord pdf/zoning2005.pdf. Accessed October 2, 2006.

3. Air Quality

Description of Baseline Environmental Conditions:

a. Identify the applicable air quality management district having jurisdiction over the air basin where the site is located.

The site is located in the Bay Area Air Quality Management District.

 Identify the criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors).

The Bay Area has non-attainment status for the national 8-hour ozone concentration.

c. Describe all equipment or processes that would be stationary or mobile sources of air emissions or odors, and indicate whether a permit from the applicable air quality management district would be required for such equipment or processes, or any other aspect of the project.

All potential sources of air pollutants, whether they handle hazardous wastes or not, are included in the Permit to Operate issued by the Bay Area Air Quality Management District. The following table presents the BAAQMD source numbers and a description of pollutant-emitting equipment

| Source # | Description | Source # | Description | Source # | Description |
|----------|----------------------|----------|--------------|----------|-----------------------|
| S-1 | Solder furnace | S-14 | Tray Furnace | S-22 | Small ball mill |
| S-3 | Hot Pot furnace | S-15 | Drying oven | S-24 | Boiler |
| S-6 | 430 Crucible furnace | S-17 | Drying oven | S-25 | Cooling tower |
| S-8 | 3000 Pot furnace | S-18 | Drying oven | S-26 | SSI Shredder |
| S-9 | Drying oven | S-19 | Screener | S-29 | Reverberatory furnace |
| S-11 | 600 Crucible furnace | S-20 | Ball Mill 1 | S-30 | CRT/Monitor Shredder |
| S-13 | A Shredder | S-21 | Ball Mill 2 | | |

d. Indicate if the site is a source of Naturally Occurring Asbestos.

The site is not a source of Naturally Occurring Asbestos and is fully paved.

References Used:

- b. BAAQMD web site. http://www.baagmd.gov/pln/air guality/ambient air guality.htm. Accessed September 8, 2006.
- c. ECS Refining "Permit to Operate" for Plant #1658 issued annually by the Bay Area Air Quality Management District. Current permit expires July 1, 2007.

4. Biological Resources

Description of Baseline Environmental Conditions:

a. Identify any candidate, sensitive or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service that may be present at or in close proximity to the site.

Because the site is located in a heavily industrial area and near the San Jose International Airport, there are not any areas that harbor special status species on or in close proximity to the site. The City of Santa Clara General Plan notes several potentially threatened species that possibly live within the City boundaries but does not indicate that they live in close proximity to the site. The site has been developed since 1955 and is not near to any riparian habitat that would harbor endangered species.

b. Identify any riparian habitat or other sensitive natural community identified in local or regional plans, policies, or regulations or by the California Department of Fish and Game or U.S. Fish and Wildlife Service that may be present at or in close proximity to the site.

As indicated by the City of Santa Clara Zoning Map and City of Santa Clara General Plan Map, there are no riparian habitats or sensitive natural community areas in close proximity to the facility.

c. Identify any federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) that may be present at or in close proximity to the site.

The Santa Clara County Open Space Authority does not identify any protected marshlands or vernal pools in close proximity to the site. The nearest marshland is the Alviso Slough, located Northwest of the facility.

d. Identify any native resident, migratory fish, wildlife species, nursery sites or corridors that may be present at or in close proximity to the site.

None are identified in close proximity to the site.

e. Identify any local policies or ordinances, such as a tree preservation policy, protecting biological resources that may be present at or in close proximity to the site.

The City of Santa Clara General Plan has elements that address protection of flora and fauna (Section 5.3), Water Resources (Section 5.4), Water Quality (Section 5.5), Hazardous Materials Use (Section 5.6), Noise (Section 5.7), Air Quality (Section 5.9), Open Space Preservation (Section 5.10) and preservation of Archeological Resources (Section 5.11).

f. Identify any adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan that may be applicable to biological resources present at or in close proximity to the site.

No biological resources are present at or in close proximity to the site.

References Used:

- a. City of Santa Clara General Plan, Appendix. Available online at http://www.ci.santa-clara.ca.us/pdf/collateral/3081-GeneralPlan-Chapter7.pdf. Accessed October 3, 2006.
- b. City of Santa Clara General Plan Map available online at http://www.ci.santa-clara.ca.us/pdf/plans ord pdf/GeneralPlan2005.pdf, Accessed October 3, 2006.

City of Santa Clara Zoning Map. Available online at http://www.ci.santa-clara.ca.us/pdf/plans ord pdf/zoning2005.pdf. Accessed October 2, 2006

- c. Santa Clara Open Space Authority, Areas of Interest Map. Available online at http://www.openspaceauthority.org/Preservation/Study Areas--An Overview.htm. Accessed October 3, 2006.
- e. City of Santa Clara General Plan. Available online at http://www.ci.santa-clara.ca.us/community/plans ord index.html. Accessed October 3, 2006.

5. Cultural Resources

Description of Baseline Environmental Conditions:

 Identify any historical resources, as defined in section15064.5 of Title 14 of the California Code of Regulations (CEQA Guidelines or Guidelines) that may be present at or in close proximity to the site.

The City of Santa Clara Historical District, a mixed use residential and commercial area, is located approximately 0.5 miles SW of the facility.

The University of Santa Clara, also considered a historical resource by the City of Santa Clara, is located approximately 1 mile SE of the facility.

b. Identify any archeological resources, pursuant to section 15064.5 of the Guidelines that may be present at or in close proximity to the site.

There are no known archeological resources at or close to the site. The City of Santa Clara General Plan requires new developments to conduct archeological investigations, but no new developments have occurred in proximity to the site in the past ten or more years.

 Identify any unique paleontological resources or unique geologic features that may be present at or in close proximity to the site.

None.

d. Identify any human remains, including those interred outside of formal cemeteries that may be present at or in close proximity to the site.

There are no known human remains outside of formal cemeteries known in close proximity to the site. There are, however, two cemeteries located near the site. The Mission City Memorial Park (420 N. Winchester Boulevard, Santa Clara) is located 2.25 miles south of the facility and the Santa Clara Catholic Cemetery (490 Lincoln Street, Santa Clara) is located 2.0 miles south of the facility.

e. Provide the results of any <u>California Historical Resources Information System (CHRIS)</u> inventory search conducted by the appropriate <u>Office of Historic Preservation</u> (OHP) <u>Information Center</u>.

No searches have been conducted of the California Historical Resources Information System. This project does not involve new construction or disturbance of the landscape.

f. Provide the results of any Registry of Sacred Sites search conducted by the <u>Native American Heritage Commission</u> (NAHC) and summary of any follow-up contacts with tribal representatives.

The Registry of Sacred Sites has not been searched for this project. However, this project does not include disturbance of any land.

References Used:

6. Geology and Soils

Description of Baseline Environmental Conditions:

a. Describe the sites location relative to nearby areas of known earthquake faults, delineated on the most recent Alguist-

Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area, or based on other substantial evidence. (Refer to Division of Mines and Geology Special Publication 42).

There are no active earthquake faults in the City of Santa Clara. However, the city (and the facility) is five miles from the Hayward Fault and seven miles from both the San Andreas and Calaveras Faults.

b. Describe the sites location relative to nearby geologic units or soils that are unstable, or that might become unstable as a result of the project.

This project does not involve any soil disturbance that might cause unstable soils. The soil in the area is comprised of valley sediments.

c. Indicate if the site is located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994).

The site is not located on expansive soil.

d. If waste water will be disposed and sewers are not available, indicate if the site is located on soils that are capable of adequately supporting the use of septic tanks or alternative waste water disposal systems.

The site is connected to the City of Santa Clara sewer system and will not use a septic system.

e. Provide a contour site map.

The site is flat. See attached USGS map in Section II of the Standardized Permit Application for reference.

References Used:

a. City of Santa Clara General Plan, Chapter 5 "Environmental Conditions". Available online at http://www.ci.santa-clara.ca.us/pdf/collateral/3081-GeneralPlan-Chapter5.pdf. Accessed October 5, 2006.

7. Hazards and Hazardous Materials

Description of Baseline Environmental Conditions:

a. Describe those aspects of the proposed project that may involve the transport, use or disposal of hazardous materials.

The facility is engaged in transport of hazardous wastes to the facility for recycling. The facility employs two trucks that pick up hazardous and non-hazardous wastes throughout Northern California daily. In addition, third party trucks make pick-ups and deliveries of hazardous and non-hazardous wastes several times daily.

Hazardous wastes and non-hazardous recyclable materials are recycled on-site through metal recovery. No disposal of hazardous materials occurs at the site.

b. Summarize the conclusions of any studies that examined any hazards to the public or the environment through reasonably foreseeable upset and accident conditions at the site that involved the release of hazardous materials into the environment.

There have been no formal studies performed by third parties of foreseeable upset and accident conditions at the site. However, many elements are in place to prevent accidents at the site involving hazardous materials. For example, the loading dock at the facility is recessed to contain spills if they occur, and spill clean up equipment is maintained in the loading area. The site is fully paved and fenced for security purposes. Processes have air pollution control equipment that is routinely inspected to ensure proper operation. All liquid handling and processing areas have proper secondary containment. The facility is underlain with a plastic liner in solid handling areas and with a geotextile liner in liquid handling areas. This design was chosen to eliminate the possibility of soil contamination from site activities.

c. Describe those aspects of the project that may emit hazardous emissions or handle hazardous or acutely hazardous materials, substances or waste within one-quarter mile of an existing or proposed school or other sensitive receptors.

The facility does not store or handle acutely hazardous materials. The processing of the material (tin/lead solder dross and paste, photochemicals with silver, and the non-hazardous electronic scrap and cathode ray tubes) has the potential to emit dust contaminated with lead and other metals. These processes are all vented to air emission control equipment to control process and fugitive emissions. Efficiency testing on some of the baghouses is required by the BAAQMD and

ECS Refining remains in compliance with this measure. However, these emissions do not occur within one-quarter mile of any existing or proposed school or other sensitive receptor.

d. Indicate if the site is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5.

The site is not located on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5.

e. Identify and describe the conditions of any adopted emergency response plan or emergency evacuation plan that would be required during proposed project implementation.

The site maintains an emergency response and contingency plan to guide facility personnel in the event of a hazardous materials or other natural disaster. No additional emergency response plan is needed.

References Used:

8. Hydrology and Water Quality

Description of Baseline Environmental Conditions:

 Identify and describe any water quality standards or waste discharge requirements that may apply to the proposed project. If applicable, include the name of the applicable Regional Water Quality Control Board responsible for project oversight.

The site maintains an industrial wastewater discharge permit issued by the San Jose/Santa Clara Water Pollution Control Plant (Permit number SC-144B). This permit allows batch discharge of treated photochemical wastewater after testing to ensure compliance with local discharge limits for metals and pH.

'n addition, the site maintains a Storm Water Pollution Prevention Plan and Monitoring Program according to the requirements of the General Permit held by the Santa Clara Valley Water District.

b. Indicate if the site is located over a known groundwater aquifer, and describe those aspects of the project that may require the extraction or recharge of groundwater.

The site is supplied by municipal water from the City of Santa Clara. A perched aquifer exists at the site approximately 10-30 feet below ground surface, but this aquifer does not have any apparent beneficial use. The deep aquifer used for drinking water in the City of Santa Clara is located at 500 – 800 feet below ground surface. No activities at the site currently impact the ground water quality, and they are not anticipated to influence ground water in the future.

c. Describe any site drainage features, including streams or rivers, and the capacity of existing or planned storm water drainage.

There are no streams or rivers on-site. The entire site is paved or covered in concrete. The uncovered yard areas of the site slope gradually to the street gutters, allowing rain water to run off. Rainfall on the roof is collected by gutters and directed under the yard area on its way to the street storm drains.

d. Indicate if the site is located within a 100-year flood hazard area.

The site is not located in a 100-year flood plain.

 Indicate if the site is located in an area subject to inundation by sieche (resonant oscillation of water), tsunami or mudflow.

The site is not located in an area subject to sieche, tsunami, or mudflow.

References Used:

d. Map available at https://hazards.fema.gov/femaportal/wps/portal/!ut/p/ s.7 0 A/7 0 DCV and shows no flood hazard at ECS Refining location.

9. Land Use and Planning

Description of Baseline Environmental Conditions:

a. Identify the zoning designation and allowable land uses and limitations of the site and the applicable land use plan, policy, or regulation and agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance).

The site is zoned "Heavy Industry" by the City of Santa Clara. Land use on the site is governed by the City of Santa Clara General Plan and Zoning Ordinance.

b. Identify the applicable habitat conservation plan or natural community conservation plan and agency with jurisdiction over the project. This existing facility does not trigger any oversight from the City with regard to its conformance to the General Plan.

The site is covered by the County of Santa Clara Habitat Conservation Plan, though this is an existing facility and does not trigger any oversight by this plan.

References Used:

10. Mineral Resources

Description of Baseline Environmental Conditions:

a. Identify any mineral resources that would be of value to the region and the residents of the state that are located on or in proximity to the site.

There are no known mineral resources on or in close proximity to the site.

b. Indicate if the site is a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan.

The site is not a locally-important mineral resource recovery site.

References Used:

11. Noise

Description of Baseline Environmental Conditions:

Describe those aspects of the project that would generate noise, the anticipated noise levels, and the standards
established in the local general plan or noise ordinance, or applicable standards of other agencies.

The facility operations that generate noise are the truck traffic associated with the facility, and three air compressors that are located outdoors. The City of Santa Clara General Plan has determined that the industrial area that ECS Refining is located in is suitable for these activities and that residences are not close enough to be impacted by the noise generated at the facility.

 Describe those aspects of the project that would generate noise excessive groundbourne vibration or groundbourne noise levels.

There are no aspects of this project that involve groundborne vibration or groundborne noise levels.

c. Describe ambient noise levels at and in the vicinity of the site.

Ambient noise levels at the property line have not been measured, but are moderate. The facility does not generate as much noise as its neighbor across the street, a drop forge.

References Used:

12. Population and Housing

Description of Baseline Environmental Conditions:

a. Describe those aspects of the project that would induce substantial population growth in area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure).

There are no aspects of this project that are expected to induce population growth in the area.

b. Describe those aspects of the project that would displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere.

This project will not displace existing housing units.

c. Describe those aspects of the project that would displace substantial numbers of people, necessitating the construction of replacement housing elsewhere.

This project will not displace any people.

References Used:

13. Public Services

Description of Baseline Environmental Conditions:

Describe to what extent the following services are currently being provided at or in proximity of the site:

- Fire protection
- Police protection
- Schools
- Parks
- Other public facilities

Fire protection and police protection are provided by the City of Santa Clara. Schools, parks and other public facilities are located in the city but are not used or impacted by ECS Refining's operations.

References Used:

14. Recreation

Description of Baseline Environmental Conditions:

Describe existing neighborhood and regional parks or other recreational facilities that are located at or in proximity of the site.

Approximately 0.5 miles east of the site is a community baseball park. Other parks are located in the city, approximately 1.5 miles south of the facility.

References Used:

15. Transportation and Traffic

Description of Baseline Environmental Conditions:

a. Describe those aspects of the project that would affect the existing transportation system at and in the vicinity of the site.

q

This permit renewal is not expected to affect the existing transportation system over and above the truck traffic currently generated by the facility.

Describe the traffic load and capacity of the street system in the vicinity of the site.

The surrounding roads near the facility are two lane city streets. A four-lane street is located approximately 0.25 miles east and west of the facility (de la Cruz Boulevard and Lafayette Boulevard).

c. Describe the level of service standard established by the country congestion management agency for designated roads or highway.

The designated agency for transportation planning in Santa Clara is the Santa Clara Valley Transportation Authority. Current projects managed by this agency are not occurring in the vicinity of ECS Refining.

d. Describe any hazards due to design features (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment) of roads or highways that may exist in the vicinity of the site.

There are no farm vehicles using the roads near the site, nor are there any sharp curves or dangerous intersections.

e. Describe emergency access routes that may exist at or in the vicinity of the site.

The site is served by city streets, which provide emergency access, if required, by fire and police departments.

Describe the current parking capacity existing at or in the vicinity of the site.

The ECS Refining facility parking lot has eleven spaces, three of which are designated for visitors and the remaining for employees. Additional parking is located on the street.

g. Describe any adopted policies, plans, or programs supporting alternative transportation (e.g., bus turnouts, bicycle racks) that may exist at or in the vicinity of the site.

There are no bus routes that are on the streets adjacent to the site, nor are there any bicycle lanes. ECS Refining does provide a bicycle rack for ECS employees to use.

References Used:

16. Utilities and Service Systems

Description of Baseline Environmental Conditions:

a. Describe those aspects of the project that would require wastewater treatment approvals from the applicable Regional Water Quality Control Board.

There are no additional wastewater treatment approvals that would be required for this project; all approvals needed are currently in place.

 Describe those aspects of the project that would require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities.

There are no aspects of the project that would result in the construction of new water or wastewater treatment facilities.

c. Describe those aspects of the project that would require or result in the construction of new storm water drainage facilities or expansion of existing facilities.

None.

d. Identify water supplies that are available to serve the project from existing entitlements and resources, or if new or expanded entitlements are needed.

Existing water is supplied to the site by the City of Santa Clara and this source is adequate for the site's needs. No expansions that require additional water resources are planned.

e. Identify the wastewater treatment provider that serves or may serve the project, and indicate whether or not it has adequate capacity to serve the projects projected demand in addition to the providers existing commitments.

The wastewater treatment provider for this site is the San Jose/Santa Clara Water Pollution Control Plant. It maintains a capacity of 138 million gallons per day. This project will not increase wastewater discharge to the Plant, and existing capacity is adequate.

f. Describe those aspects of the project that would require disposal of materials at a landfill, identify the landfill to be utilized, and indicate if the landfill has sufficient permitted capacity to accommodate the projects solid waste disposal needs.

This project is not anticipated to increase landfill utilization.

References Used:

Certification:

I hereby certify that the statements furnished above and in the attached exhibits present the data and information required for this initial evaluation to the best of my ability, and that the facts, statements, and in formation presented are true and correct to the best of my knowledge and belief.

| Prep | Date | |
|-----------------|--------------------------|----------------|
| Beverly Pester | Environmental Consultant | (541) 753-1400 |
| Preparer's Name | Preparer's Title | Phone # |

COMMUNITY PROFILE QUESTIONNAIRE

COMMUNITY PROFILE FOR

ECS REFINING 705 REED STREET SANTA CLARA, CA 95050 (408) 988-4386

EPA I.D. # CAD 003 963 592

1. Description of the proposed project (this would be the same description to be used for the CEQA Initial Study).

This project is a renewal of an existing standardized permit that authorizes ECS Refining to treat, store and recycle several metal-bearing waste streams that do not require a RCRA permit for recycling. There area two broad categories of hazardous wastes included in the permit: tin/lead solder dross and related wastes, and photochemicals with silver and related wastes. The scope of the permit is not to be changed upon the renewal, and the areas permitted for hazardous waste storage will decrease. The site is located in an area zoned for Heavy Industry and has been located at the same site since 1980. The use of the site for this operation is in accordance with City of Santa Clara guidelines for hazardous operations location.

2. Description of the site (including the address-this would be the same description to be used for the CEQA Initial Study).

ECS Refining is located at 705 Reed Street, Santa Clara, CA 95050. Its facility also occupies a portion of the parcel located directly north (710 Parker Street). The rest of the Parker Street parcel is occupied by a company affiliated with ECS Refining, United Datatech Distributors.

- 3. Description to the surrounding land uses and environmental resources (this would be the same information to be contained in the CEQA Initial Study).
 - A. Nearest schools/hospitals (in miles):

The nearest school is St. Clare's (1.1 mile SW) located at 725 Washington Street. The University of Santa Clara is approximately 1 mile SE.

The nearest hospital is located 3.2 miles SW at 900 Kiely Boulevard (Kaiser Permanente).

- B. Nearest places of worship:
- St. Clare's at 725 Washington Street (1.1 mile SW of the site).

C. Nearest Historical Landmarks/Archeological sites:

The University of Santa Clara is a historical landmark and is located 1 mile SE of the site. The City of Santa Clara Historical District is approximately 0.5 miles SW of the site and consists of historical homes.

D. Nearest residential area:

Approximately 0.5 SW of the site. There are a few residences closer than this, approximately 0.25 miles SW of the site.

E. Zoning designation:

Zoned MH—Heavy Industry by the City of Santa Clara.

F. Neighboring businesses:

Neighboring businesses are commercial and light to heavy industry. For specific business names, see attached mailing list.

G. Ethnicity/social economics of community (include any predominant language spoken different from English):

Spanish

4. Have there been any known inquiries (current and past) from community members, groups, etc., regarding the project? If so, please provide the names, phone numbers and addresses of key contacts.

There have not been any inquiries from community groups or members regarding the current renewal project.

5. Have there been any community meetings/hearings (current and past) regarding the project (include dates, if known)?

There have not been any community meetings or hearings regarding this standardized permit renewal. There was a public meeting held when the original standardized permit was issued in 1997; however, no members of the public attended the meeting.

6. Have there been any TV, radio newspaper coverage (current and past) regarding the project (include dates, if known)?

No television, newspaper, or radio coverage of the permit renewal has occurred.

7. Have there been any contacts/inquirers (current and past) from governmental entities (including elected officials) regarding this project (include dates, if known)?

DTSC 1195 (04/95) Page 2

There have not been any contacts or inquiries from governmental entities regarding this permit renewal.

8. List any specific concerns/issues raised by the community regarding the site/facility or any activities performed on the site/facility.

No specific concerns have been received in the past ten years. Previously, some neighboring businesses have been concerned about odors from the facility and truck traffic from deliveries to the facility.

9. List any anticipated concerns/issues that may be raised by the community regarding the site/facility or any activities performed on the site.

None are anticipated.

10. List any general environmental concerns/issues that exist in the community regarding the site/facility.

The facility is not aware of any general environmental concerns about its operations.

11. What public participation activities do you recommend be addressed to facilitate the expeditious issuance of the permit for this project?

The standard mailing of project description and opportunity for public comment.

12. Notification of community members, contiguous property owners, State and local agencies, elected officials and other interested parties is required so that these groups may be informed of the activities being conducted by members of their community, to inform them of the decision(s) to be made by the Department, and to allow comments by the community prior to final determinations by the Department. Please provide the names and complete addresses of all contiguous property owners. Additionally, please provide the names and complete addresses of any schools, hospital/medical facilities, churches, parks or other places of public assembly within a 1/4 mile radius of the facility. Please attach additional pages if necessary.

See attachment for facility mailing list, including adjacent businesses, property owners for adjacent parcels, and local officials.

13. Please provide the names and address of the following:

Nearest library

Name: Santa Clara City Library

Address: 2635 Homestead Road

City/State/Zipcode: Santa Clara, CA 95051

Contact Person: Adult Services
Phone Number: (408) 615-2900

Local Radio Station

Name: K-LIV News Radio

Address: 750 Story Road

City/State/Zipcode: San Jose, CA 95122

Contact Person: Newsroom

Phone Number: (408) 575-1600

Fax Number: (408) 995-0823

Local Newspaper of Major Circulation

Name: San Jose Mercury News

Address: 750 Park Ridder Drive

City/State/Zipcode: San Jose, CA 95190

ECS REFL NG 705 Reed Street Santa Clara, CA 95050

MAILING LIST--Nearby Businesses and Property Owners

| Name | <u>Business</u> | Street | City | State | ZIP |
|--------------------------------------|--------------------------|----------------------------|---------------|-------|-------|
| | | | | | |
| Hubert Forsyth | | 220 Montgomery Street | San Francisco | CA | 94104 |
| James L. and Kenneth R. Taggart | | 705 Reed Street | Santa Clara | CA | 95050 |
| David Fontana | | 12635 Hager Court | San Martin | CA | 95046 |
| HoVan Nguyen | A&T Auto Wreckers | 735 Reed Street | Santa Clara | CA | 95050 |
| Current Occupant | Leland's Marine | 601 Reed Street | Santa Clara | CA | 95050 |
| Bret Mooney | Superior Marine | 621 Reed Street | Santa Clara | CA | 95050 |
| Chris Jilg | Mustang Fever | 611 Reed Street | Santa Clara | CA | 95050 |
| Current Occupant | | 631 Reed Street | Santa Clara | CA | 95050 |
| Current Occupant | | 641 Reed Street | Santa Clara | CA | 95050 |
| Rocky Porras | Metalvision | 661 Reed Street | Santa Clara | CA | 95050 |
| Current Occupant | | 630 Reed Street | Santa Clara | CA | 95050 |
| Current Occupant | | 640 Reed Street | Santa Clara | CA | 95050 |
| Current Occupant | | 651 Reed Street | Santa Clara | CA | 95050 |
| Current Occupant | | 671 Reed Street | Santa Clara | CA | 95050 |
| Current Occupant | West Coast Auto Body | 620 Reed Street | Santa Clara | CA | 95050 |
| Leona and Theodore Boynton, Trustees | | 1054 Summerwind Court | San Jose | CA | 95132 |
| J.B. Sherr | Sherr Investment Company | 1025 Barriolhet | Hillsborough | CA | 94010 |
| Marcus Petta | Able Body Shop | 660 Reed Street | Santa Clara | CA | 95050 |
| Western Air Switch Div | | 845 Reed Street | Santa Clara | CA | 95050 |
| Cal-Coast Signs | | 845 Reed Street | Santa Clara | CA | 95050 |
| M & G Instrument Company | | 845 Reed Street | Santa Clara | CA | 95050 |
| Western Forge & Flange | | 780 Reed Street | Santa Clara | CA | 95050 |
| Zenitram Finishing, Inc. | | 760 Parker Street | Santa Clara | CA | 95050 |
| Automated Metal Finishing | | 770 Reed Street | Santa Clara | CA | 95050 |
| JF Ma nufacturing | | 762 Reed Street | Santa Clara | CA | 95050 |
| James Hyland | Manufacturer's Glass | 650 Reed Street | Santa Clara | CA | 95050 |
| Motorspeed West | | 1925 Grant Street, Suite 1 | Santa Clara | CA | 95050 |
| RMD | | 1925 Grant Street, Suite 3 | Santa Clara | CA | 95050 |
| SV Precision | | 1925 Grant Street, Suite 4 | Santa Clara | CA | 95050 |
| Silverstre & Song | | 1925 Grant Street, Suite 5 | Santa Clara | CA | 95050 |
| Smart Auto Glass | | 1945 Grant Street, Suite 1 | Santa Clara | CA | 95050 |
| R & D Tool Specialist, Inc. | | 1945 Grant Street, Suite 3 | Santa Clara | CA | 95050 |
| L & L Gutter | | 1945 Grant Street, Suite 4 | Santa Clara | CA | 95050 |

EHS DEPT.

ECS REFING 705 Reed Street Santa Clara, CA 95050

MAILING LIST--Nearby Businesses and Property Owners

| Name | <u>Business</u> | Street | City | State | ZIP |
|------------------------------------|-----------------|---------------------------------|-------------|-------|------------|
| General Mechanical | | 1945 Grant Street, Suite 5 | Santa Clara | CA | 95050 |
| Kapa Auto Body | | 2005 Grant Street | Santa Clara | CA | 95050 |
| Young Printing | | 825 Parker Street | Santa Clara | CA | 95050 |
| Chaya's Auto Service | | 829 Parker Street | Santa Clara | CA | 95050 |
| South Bay Mobility | | 730 Parker Street | Santa Clara | CA | 95050 |
| Jos. J. Albanese Cement Contractor | | 840 Parker Street | Santa Clara | CA | 95050 |
| Jos. J. Albanese Cement Contractor | , | 767 Parker Street | Santa Clara | CA | 95050 |
| K Autobody | | 740 Parker Street | Santa Clara | CA | 95050 |
| Mullen Tile | | 850 Parker Street | Santa Clara | CA | 95050 |
| Machine Craft | | 850A Parker Street | Santa Clara | CA | 95050 |
| Property Owner | | P.O. Box 26937 | San Jose | CA | 95159-6937 |
| Property Owner | | P.O. Box 327 | Santa Clara | CA | 95052-0327 |
| Property Owner | | 118 Los Patios | Los Gatos | CA | 95032 |
| Property Owner | | 1530 Meridian Avenue, Suite 122 | San Jose | CA | 95125-5318 |
| Property Owner | | 821 Hillcrest Blvd. | Millbrae | CA | 94030 |
| Property Owner | | 1855 Hamilton Avenue, Suite 200 | San Jose | CA | 95125 |

ECS Refir 705 Reed Su eet Santa Clara, CA 95050

MAILING LIST - GOVERNMENT OFFICIALS

| Name | Title | Address | City | State | ZIP |
|------------------------|---|------------------------------------|---------------|-------|------------|
| | Lau C. Li Di Li L | 100 5 | | | 05440 |
| Elaine Alquist | 13th Senatorial District | 100 Paseo de San Antonio, Ste. 209 | San Jose | CA | 95113 |
| Sally J. Lieber | 22nd Assembly District | 274 Castro Street, Suite 202 | Mountain View | CA | 94041 |
| Rebecca Cohn | 24th Assembly District | 100 Paseo de San Antonio, Ste. 319 | Campbell | CA | 95008 |
| Michael Honda | 15th Congressional District | 1999 S. Bascom Avenue, Suite 815 | Campbell | CA | 95008 |
| Patricia Mahan | Mayor | 1500 Warburton Avenue | Santa Clara | CA | 95050 |
| Dominic Caserta | City Council | 1500 Warburton Avenue | Santa Clara | CA | 95050 |
| Pat Kolstad | City Council | 1500 Warburton Avenue | Santa Clara | CA | 95050 |
| Will Kennedy | City Council | 1500 Warburton Avenue | Santa Clara | CA | 95050 |
| Kevin Moore | City Council | 1500 Warburton Avenue | Santa Clara | CA | 95050 |
| Jamie L. Matthews | City Council | 1500 Warburton Avenue | Santa Clara | CA | 95050 |
| Jamie McLeod | Vice-Mayor | 1500 Warburton Avenue | Santa Clara | CA | 95050 |
| Jennifer Sparacino | City Manager | 1500 Warburton Avenue | Santa Clara | CA | 95050 |
| Geoff Goodfellow | City Planning | 1500 Warburton Avenue | Santa Clara | CA | 95050 |
| Chief of Police | City of Santa Clara Police Department | 1541 Civic Center Drive | Santa Clara | CA | 95050 |
| David R. Parker, Ph.D. | City of Santa Clara Fire Department | 777 Benton Street | Santa Clara | CA | 95050 |
| Public Works Manager | City of Santa Clara Public Works Department | 1500 Warburton Avenue | Santa Clara | CA | 95050 |
| City of Santa Clara | Water & Sewer Utility Department | 1500 Warburton Avenue | Santa Clara | CA | 95050 |
| Superintendent | Santa Clara Unified School District | P.O. Box 397 | Santa Clara | CA | 95052 |
| Santa Clara County | Office of Toxics Enforcement | P.O. Box 28070 | San Jose | CA | 95159-8070 |
| | Santa Clara County Planning & Development | 70 W. Hedding | San Jose | CA | 95110 |
| City Clerk | City Hall, City of Santa Clara | 1500 Warburton Avenue | Santa Clara | CA | 95050 |
| Fire Chief | Fire Station No. 1 | 777 Benton Street | Santa Clara | CA | 95050 |
| Donald F. Gage | Santa Clara County Supervisor | 70 W. Hedding | San Jose | CA | 95110 |
| Blanca Alvarado | Santa Clara County Supervisor | 70 W. Hedding | San Jose | CA | 95110 |
| Pete McHugh | Santa Clara County Supervisor | 70 W. Hedding | San Jose | CA | 95110 |
| James T. Beall, Jr. | Santa Clara County Supervisor | 70 W. Hedding | San Jose | CA | 95110 |
| Liz Kniss | Santa Clara County Supervisor | 70 W. Hedding | San Jose | CA | 95110 |
| Amber Harmon | Department of Toxic Substances Control | 700 Heinz Avenue, Suite 200 | Berkeley | CA | 94710 |



November 6, 2006, 2006

ECS Refining

C/o: Mr. Kenneth Taggart 705 Reed Street

Santa Clara, CA 95050

Subject:

Zoning Verification for 705 Reed Street and 710 Parker Street (APN:

224-38-024 and 224-38-023)

Dear Mr. Taggart:

This letter is provided in response to your request for zoning verification of the properties noted above. The properties are designated for Heavy Industrial use in the General Plan and are currently zoned as Heavy Industrial (MH). Attached are the regulations related to the MH Zoning District for your reference.

According to the request letter, ESC Refining recycles electronic products, tin/lead solder dross and paste, as well as photographic waste. According to the City's Zoning Ordinances, Chapter 18.50, any manufacturing, processing, assembling, or storage uses that, in the opinion of the Planning Commission, shall not be objectionable by reason of the production of offensive noise, smoke, ordor, dust, vibrations, and industrial wastes. ECS Refining comply with the ordinances for heavy industrial uses. There is no land use permitting requirements for the above properties.

In addition, Hazardous Material Division of Fire Department commented on the recycled production on site. The use of the properties met the intent of the Heavy Industrial Zoning Districts.

There are no known zoning enforcement actions currently being taken regarding the requested properties. Please check with Building Inspection for any building violation at (408) 615-2420.

Should you have questions or require additional information, please contact Marge Sung at the Planning Division at (408) 615-2450.

Sincerely,

Gloria Sciara, AICP

Interim Manager of Development Review

Attachments

Cc: Beverly Pester

GS/ms 1:\PLANNING\2006\SUBJECT\Zoning Verification 2006\705 Reed St.doc

December 20, 2006

Ken Taggart ECS Refining 705 Reed Street Santa Clara, CA 95050

RE: Preliminary P.E. Certification for Hazardous Waste Units

Dear Mr. Taggart:

This document provides preliminary certification of Hazardous Waste Units identified at the ECS Refining ("ECS") facility at 705 Reed Street, in Santa Clara, California ("Facility"). This submission is in fulfillment of the requirement for certification by an "independent, qualified professional engineer registered in California" in support of the ECS standardized permit application, and contains certifications of existing elements and itemized plans for specific facility upgrades to be performed prior to finalization of the facility permit in December of 2007 and final certification. The units reviewed in this document are identified on the attached Figure 1, "Facility Layout – Unit Inventory".

UNIT 1 PHOTOCHEMICAL TREATMENT UNIT (INCLUDING VACUUM EVAPORATION UNIT 3)

The photochemical treatment unit (Unit 1) at the Facility is used to process liquid photographic waste, and is shown on attached Figure 2, Process Flow/Piping Layout-Photochemical Treatment Unit 1. The process consists of transferring liquid photographic waste from drums into holding tanks 1 and 2 for temporary storage. Waste is then transferred into settling tank 3 for chemical precipitation. The resulting fluid is decanted and may follow one of two paths: "mega filtration", testing, and discharge or disposal, or vacuum evaporation. If transferred directly from the settling tank to the "mega-filter", it is tested for silver and either discharged under permit to the POTW or shipped off-site as a non-hazardous waste. The waste may also be run through a double-effect evaporator (vacuum evaporation unit) that operates under vacuum to distill water from photochemicals with silver and other wastewaters with metals. The steam distillate from the first effect or shell of the evaporator is used to provide the heat to distill material in the second shell. The unit is completely enclosed, eliminating the need for air pollution control. Following evaporation, the distillate is filtered through the mega-filter, tested for silver and either discharged under permit to the POTW or shipped off-site as a non-hazardous waste.

Storage tanks within Unit 1 are above ground and contained in two bermed secondary containment structures, the north (Area IIa) and south area (Area IIb). The following tanks are included in Unit 1 and in Unit 3:





| Current Tank Number | Capacity (gal.) | |
|------------------------|--------------------|--|
| Area IIa | | |
| A | 3,000 | |
| В | 3,000 | |
| Đ | 1,050 | |
| E | 750 | |
| F | 750 | |
| Subtotal Volume | 6,000 | |
| Area IIb | | |
| 1 | 2,500 | |
| 2 | 2,500 | |
| 3 | 2,500 | |
| С | 3,200 | |
| Subtotal Volume | 10,700 | |

Note:

Tanks grouped by secondary containment structure

Tanks D, E, and F, currently on a second floor mezzanine within the Area IIa, are slated for removal prior to December 2007. Tanks 3 and C are slated for replacement prior to December 2007.

Engineering Certification of Tank Integrity

Tanks 1, 2, A, and B were installed in 2001 and are cone bottom premium high density polyethylene tanks manufactured by Norwesco. Norwesco literature were reviewed and the tanks were directly observed during preparation of this certification. The evaporator is constructed of stainless steel and polyethylene.

1. <u>Tanks Strength Evaluation</u>: The tanks are certified by the manufacturer (Norwesco) for storage of liquid waste meeting specific gravity of 1.5. According to ECS, the photographic waste stored within these tanks exhibits a specific gravity of 1.2, well below the design capacity of the tanks. Therefore, based upon manufacture specifications, the tanks are being used appropriately and have sufficient strength to assure that they do not collapse or rupture under intended usages. The evaporator is a continuous treatment unit and does not store large quantities of fluid.



- 2. <u>Chemical Compatibility:</u> A Based upon a review of available literature, the HDPE tank material is compatible with photographic solutions, with no indication that the serviceability of the tanks would be impaired by storage of such chemicals. This is also true of stainless steel and PVC.
- 3. <u>Tank System Piping:</u> Tank system piping is composed of PVC. This material is compatible with photographic waste. All system piping is 1-inch diameter schedule 80 PVC, with the exception of the piping for the drum pump, which is 1 1/2" schedule 80 PVC.
- 4. Pump Descriptions: The following pumps are installed in Unit 1:
 - a. Drum Pump Station (Pump #1): 1 1/2 HP self priming centrifugal pump with strainer.
 - b. Discharge Pump from Tanks 1&2 (Pump #2): Iwaki MD70
 - c. Recirculation pump for precipitation Tank 3 (Pump #3) Wilden M2
 - d. Discharge pump for Tank 3 (Pump#4) Iwaki MD70
 - e. Discharge pump for Tank C (Pump #5) Iwaki MD70
 - f. Inside containment sump pump (Pump #6) Wilden M2
 - g. Outside containment sump pump (Pump #7) Wilden M2
- 5. <u>Design Standard(s)</u>: Tanks and ancillary equipment were constructed with in-house design standards incorporating appropriate use criteria from equipment suppliers.
- 6. <u>Spill prevention and overfill equipment:</u> All tanks in Unit 1 are equipped with high level alarms that sound if triggered by high material levels in any tank. Liquids are transferred under operator control at all times. Operators are trained to respond to system alarms by cutting off the feed pumps.
- 7. <u>Corrosion Protection Measures:</u> Tanks and tank stands in Unit 1 are constructed with non-corrosive HDPE or are coated with epoxy. Metal seismic tie downs will be recoated with epoxy following replacement of tanks 3 and C in 2007.
- 8. <u>Structural Condition:</u> No structural damage or inadequate construction such as cracks punctures or damaged fittings was observed. Prior to December 2007, tanks (3) and (C) will be replaced and a pressure test shall be performed on the system and ancillary piping. Furthermore, seismic certification will be performed following installation of replacement of tanks 3 and C and removal of tanks D, E, and F prior to December 2007.
- 9. <u>Leak Detection Equipment:</u> A Hypalon liner is installed beneath the concrete containment structures of Unit 1. A moisture sensor is installed between the concrete pad and the Hypalon liner to determine if any liquid has migrated through the concrete.
- 10. <u>Documented Age And Estimated Remaining Service Life Of Tank System:</u> Tanks 1 and 2 were installed in 1997. Tanks A and B were installed in 2001. Tanks 3 and C will be replaced, and tanks D, E, and F will be removed prior to December 2007. based on findings. Per the manufacturer's literature, the HDPE tanks do not have anticipated service lifetimes due to the variable effects of environmental factors such as light exposure and stored materials. In the case of Unit 1, the tanks are sheltered from direct light and contain material that is very compatible with the tank material. Therefore, the



- tanks must be visually inspected for signs of wear and tear such as bulging and bubbling. No signs of significant deterioration were noted in tanks 1, 2, A, or B.
- 11. <u>Leak Testing</u>: Leak testing of tanks and ancillary equipment will be performed prior to December 2007 after installation of replacement tanks and removal of tanks D, E, and F.

Engineering Certification of Secondary Containment

- 1. <u>Secondary Containment Volume:</u> The calculated secondary containment volume for the north and south bermed areas are as follows:
 - a. South Bermed Area: Calculated volume 10,690 gallons (note volume for storage of 160 55-gallon drums removed)
 - b. North Bermed Area: Calculated volume 3,820 gallons (note volume for storage of 20 55-gallon drums removed)
 - c. The volume of both bermed areas are greater than either 10% of the total volume of all tanks or 100% of the largest tank volume contained in the bermed area. Because the north bermed area (Unit IIa) is indoors and the south bermed area (Unit IIb) is covered and therefore not exposed to rainfall, calculation of volume of rainfall from a 24-hour, 25-year rainstorm is not included within this calculation.
- 2. <u>Surface Coating/Impervious Barrier:</u> Prior to December 2007 and coordinated with replacement of tanks 1 and 2, the containment areas for Unit IIa and Unit IIb shall be recoated with epoxy sealant to make an impervious barrier and prevent migration of spilled liquids.
- 3. Secondary Containment Structural Strength: The secondary containment structure has been constructed with sufficient structural strength and thickness to prevent failure due to pressure gradients, physical contact with the waste to which it is exposed, climatic conditions, and the stress of daily operation. This conclusion is supported by the continued good condition of the structures after years of service without significant cracks or gaps.
- 4. <u>Verification Of Leak-Detection System</u>: The leak detection system utilizing a Hypalon liner, moisture sensor beneath the concrete secondary containment structure, and leak sensor indicators located next to both containment sumps has been verified. ECS internal procedures as described include daily monitoring of leak sensors.
- 5. <u>Verification Of Slope Design:</u> The secondary containment structures in Units IIa and IIb have been inspected and found suitable for drainage of liquid into containment sumps equipped to remove liquids resulting from leaks or spills. Both units are sheltered from precipitation.



UNITS 7 (HOT POT FURNACE), 20 (600 CRUCIBLE FURNACE), AND 21 (430 CRUCIBLE FURNACE, ALL UNITS ARE GAS FIRED CRUCIBLE FURNACES)

Units 7, 20, and 21 (Figure 1) are gas-fired crucible furnaces with removable and replaceable silicon carbide crucibles used to melt precious metal-bearing scrap or waste with fluxing agents to recover precious metal. These units do not fit the standard definition of "tanks", are not connected to external piping systems, do not pose a threat for releases to the environment as any spilled metal would either be solid or rapidly cooling molten metal, and are designed and used for their intended purpose of melting metal. They units differ in size of the crucible: the Hot Pot (Unit 7) is the smallest and holds about 50 lbs of silver flake; the 600 Furnace (Unit 20) capacity is listed by the manufacture in units of aluminum capacity as 600 lbs and is intended for melting tin/lead solder dross; and the 430 Furnace (Unit 21) is listed by the manufacture in units of aluminum capacity for 430 lbs aluminum and is intended for melting tin/lead solder dross. The furnaces are connected to a baghouse for air pollution control. The furnaces appear to be in good working condition and are routinely inspected by ECS personnel.

UNITS 8 (SOLDER POT) AND17 (3000 POT) (GAS FIRED KETTLE OR POT FURNACES)

These units are gas-fired kettle or pot furnaces with fixed steel kettles. The kettle is contained in a steel shell lined with refractory brick. All are used to melt tin/lead solder dross at a low temperature relative to the crucible furnaces. These units do not fit the standard definition of "tanks", are not connected to external piping systems, do not pose a threat for releases to the environment as any spilled metal would either be solid or rapidly cooling molten metal, and are designed and used for their intended purpose of melting metal. They differ in size of the kettle: the Solder Pot (Unit 8) capacity is 10,000 lbs of tin/lead solder dross, and the 3000 Pot Furnace (Unit 17) capacity is 3,000 lbs of tin/lead solder dross. The furnaces appear to be in good working condition and are routinely inspected by ECS personnel.

UNIT 15 (TRAY FURNACE--GAS FIRED ENCLOSED FURNACE WITH AFTERBURNER)

This unit is a gas-fired enclosed furnace with afterburner used to treat tin/lead paste and wipes. This unit does not fit the standard definition of "tank", is not connected to an external piping system, does not pose a threat for releases to the environment as any spilled metal would either be solid or rapidly cooling molten metal, and is designed and used for its intended purpose of melting metal. The material is placed in steel trays (each of capacity approximately 25 lbs of solder metal) and placed in the burning chamber (lined with refractory brick). The flame directly hits the material to be burned. Any organic gases released during the combustion are burned in the afterburner (operates at minimum 1900F). Recovered metal is poured manually from the



trays into molds. The unit is constructed of steel. The furnace appears to be in good working condition and is routinely inspected by ECS personnel.

UNIT 10 STORAGE AREA I

This area is a small 10' x 5" area intended for storage of up to 20 drums of solder dross. Because this is a solid material, no special containment structures are required and no threat of release to the environment is posed by the unit.

UNIT 11A (STORAGE AREA IIA)

Unit 11a (Storage Area IIa) is located within the north bermed area of Unit 1 and includes storage of 20 55-gallon drums of liquid photographic waste. This unit is wholly contained within Unit 1 and therefore the secondary containment/spill protection measures previously described are applicable. The volume of the containment space occupied by 20-drums was removed from the available volume of the secondary containment calculation for Unit 1 and no additional certification is necessary.

UNIT 11B (STORAGE AREA IIB)

Unit 11b (Storage Area IIb) is located within the south bermed area of Unit 1 and includes storage of 160 55-gallon drums of liquid photographic waste. This unit is wholly contained within Unit 1 and therefore the secondary containment/spill protection measures previously described are applicable. The volume of the containment space occupied by 160-drums was removed from the available volume of the secondary containment calculation for Unit 1 and no additional certification is necessary.

UNIT 13 (STORAGE AREA IV)

Unit 13 (Storage Area IV) is intended for storage of 700 drums with the first three rows allowing liquids to be stored on secondary containment pallets. This storage area is directly across from the facility receiving area and is utilized for any materials accepted by ECS Refining, including solid and liquid wastes. Spill control equipment is staged in the receiving area for ready access, liquid waste is stored on containment pallets, and the loading dock area is recessed and does not have any drains so any liquid materials released in the area would be prevented from escaping.

UNIT 23 DRUM WASH



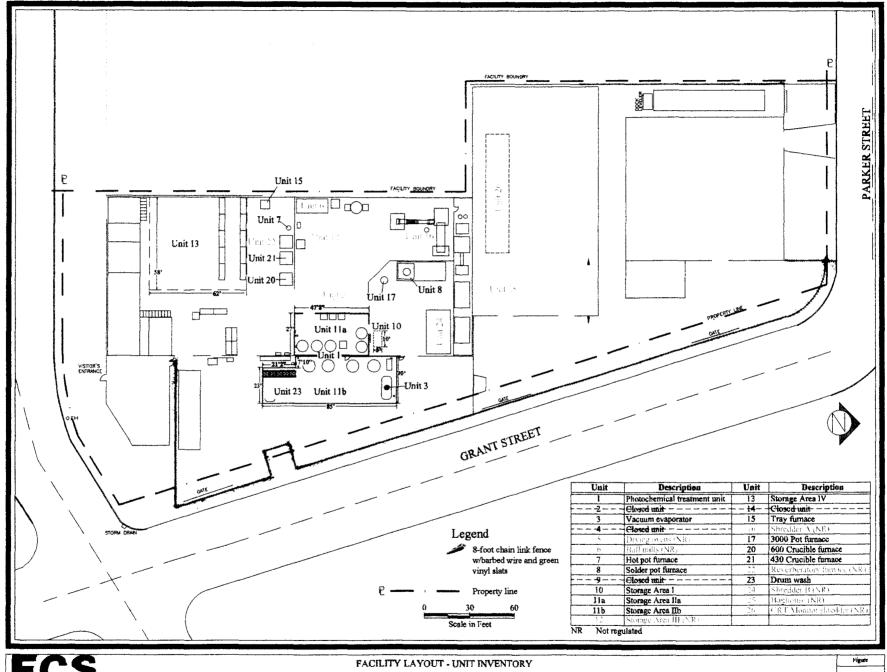
This unit is used to wash out poly drums that held photochemical waste. The drums are intended for reuse. The unit consists of a containment pallet that has poly "walls" installed on 3 sides. The operator pressure washes the drums on the pallet and the pallet collects the rinse water, which is then pumped into the treatment system (Unit 1). It doesn't involve hazardous waste treatment, and is wholly located in Area IIb (the south containment area). This unit does not include any tanks, and is wholly contained within the secondary containment system described previously in the discussion of Unit 1. Therefore, the certification of the containment for Unit 1 is applicable for this unit.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to be the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Respectfully Submitted,

Michael Harrison, P.E.

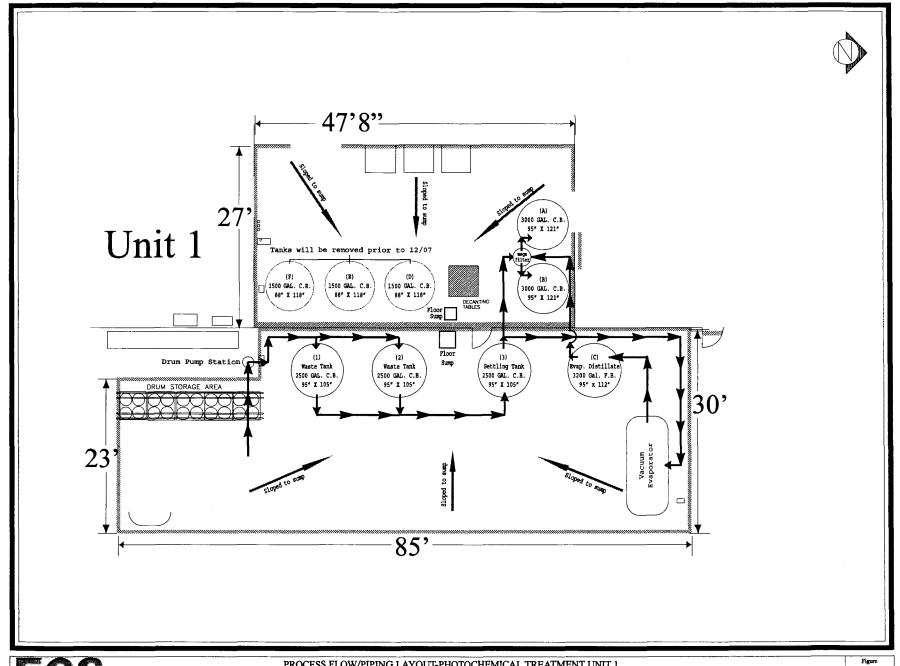
Principal



ECS Refining 705 Reed Street

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PROCESS FLOW/PIPING LAYOUT-PHOTOCHEMICAL TREATMENT UNIT 1 **ECS Refining**

705 Reed Street

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